

Time(s)	Normalized speed (percent)	Normalized torque (percent) <sup>1</sup>
1234 .....	0	0
1235 .....	0	0
1236 .....	0	0
1237 .....	0	0
1238 .....	0	0

<sup>1</sup>The percent torque is relative to maximum torque at the commanded engine speed.

[69 FR 39213, June 29, 2004, as amended at 70 FR 40465, July 13, 2005]

## PART 1048—CONTROL OF EMISSIONS FROM NEW, LARGE NONROAD SPARK-IGNITION ENGINES

### Subpart A—Overview and Applicability

Sec.

- 1048.1 Does this part apply to me?  
 1048.5 Which engines are excluded from this part's requirements?  
 1048.10 How is this part organized?  
 1048.15 Do any other regulation parts affect me?  
 1048.20 What requirements from this part apply to excluded stationary engines?

### Subpart B—Emission Standards and Related Requirements

- 1048.101 What exhaust emission standards must my engines meet?  
 1048.105 What evaporative emissions standards and requirements apply?  
 1048.110 How must my engines diagnose malfunctions?  
 1048.115 What other requirements must my engines meet?  
 1048.120 What warranty requirements apply to me?  
 1048.125 What maintenance instructions must I give to buyers?  
 1048.130 What installation instructions must I give to equipment manufacturers?  
 1048.135 How must I label and identify the engines I produce?  
 1048.140 What are the provisions for certifying Blue Sky Series engines?  
 1048.145 Are there interim provisions that apply only for a limited time?

### Subpart C—Certifying Engine Families

- 1048.201 What are the general requirements for obtaining a certificate of conformity?  
 1048.205 What must I include in my application?  
 1048.210 May I get preliminary approval before I complete my application?  
 1048.220 How do I amend the maintenance instructions in my application?

- 1048.225 How do I amend my application for certification to include new or modified engines?  
 1048.230 How do I select engine families?  
 1048.235 What emission testing must I perform for my application for a certificate of conformity?  
 1048.240 How do I demonstrate that my engine family complies with exhaust emission standards?  
 1048.245 How do I demonstrate that my engine family complies with evaporative emission standards?  
 1048.250 What records must I keep and make available to EPA?  
 1048.255 When may EPA deny, revoke, or void my certificate of conformity?

### Subpart D—Testing Production-line Engines

- 1048.301 When must I test my production-line engines?  
 1048.305 How must I prepare and test my production-line engines?  
 1048.310 How must I select engines for production-line testing?  
 1048.315 How do I know when my engine family fails the production-line testing requirements?  
 1048.320 What happens if one of my production-line engines fails to meet emission standards?  
 1048.325 What happens if an engine family fails the production-line requirements?  
 1048.330 May I sell engines from an engine family with a suspended certificate of conformity?  
 1048.335 How do I ask EPA to reinstate my suspended certificate?  
 1048.340 When may EPA revoke my certificate under this subpart and how may I sell these engines again?  
 1048.345 What production-line testing records must I send to EPA?  
 1048.350 What records must I keep?

### Subpart E—Testing In-use Engines

- 1048.401 What testing requirements apply to my engines that have gone into service?  
 1048.405 How does this program work?  
 1048.410 How must I select, prepare, and test my in-use engines?  
 1048.415 What happens if in-use engines do not meet requirements?  
 1048.420 What in-use testing information must I report to EPA?  
 1048.425 What records must I keep?

### Subpart F—Test Procedures

- 1048.501 How do I run a valid emission test?  
 1048.505 How do I test engines using steady-state duty cycles, including ramped-modal testing?  
 1048.510 Which duty cycles do I use for transient testing?

## Environmental Protection Agency

## § 1048.10

1048.515 What are the field-testing procedures?

### Subpart G—Compliance Provisions

1048.601 What compliance provisions apply to these engines?

1048.605 What provisions apply to engines certified under the motor-vehicle program?

1048.610 What provisions apply to vehicles certified under the motor-vehicle program?

1048.615 What are the provisions for exempting engines designed for lawn and garden applications?

1048.620 What are the provisions for exempting large engines fueled by natural gas?

1048.625 What special provisions apply to engines using noncommercial fuels?

1048.630 What are the provisions for exempting engines used solely for competition?

1048.635 What special provisions apply to branded engines?

### Subpart H [Reserved]

### Subpart I—Definitions and Other Reference Information

1048.801 What definitions apply to this part?

1048.805 What symbols, acronyms, and abbreviations does this part use?

1048.810 What materials does this part reference?

1048.815 What provisions apply to confidential information?

1048.820 How do I request a hearing?

APPENDIX I TO PART 1048—LARGE SPARK-IGNITION (SI) TRANSIENT CYCLE FOR CONSTANT-SPEED ENGINES

APPENDIX II TO PART 1048—LARGE SPARK-IGNITION (SI) COMPOSITE TRANSIENT CYCLE

AUTHORITY: 42 U.S.C. 7401–7671q.

SOURCE: 67 FR 68347, Nov. 8, 2002, unless otherwise noted.

### Subpart A—Overview and Applicability

#### § 1048.1 Does this part apply to me?

(a) The regulations in this part 1048 apply for all new, spark-ignition nonroad engines (defined in §1048.801) with maximum engine power above 19 kW, except as provided in §1048.5.

(b) This part 1048 applies for engines built on or after January 1, 2004. You need not follow this part for engines you produce before January 1, 2004. See §§1048.101 through 1048.115, §1048.145, and the definition of model year in

§1048.801 for more information about the timing of new requirements.

(c) The definition of nonroad engine in 40 CFR 1068.30 excludes certain engines used in stationary applications. These engines are not required to comply with this part, except for the requirements in §1048.20. In addition, if these engines are uncertified, the prohibitions in 40 CFR 1068.101 restrict their use as nonroad engines.

(d) In certain cases, the regulations in this part 1048 apply to engines with maximum engine power at or below 19 kW that would otherwise be covered by 40 CFR part 90. See 40 CFR 90.913 for provisions related to this allowance.

[70 FR 40465, July 13, 2005]

#### § 1048.5 Which engines are excluded from this part's requirements?

This part does not apply to the following nonroad engines:

(a) Engines that are certified to meet the requirements of 40 CFR part 1051, or are otherwise subject to 40 CFR part 1051 (for example, engines used in snowmobiles and all-terrain vehicles).

(b) *Propulsion marine engines*. See 40 CFR part 91. This part applies with respect to auxiliary marine engines.

[70 FR 40465, July 13, 2005]

#### § 1048.10 How is this part organized?

The regulations in this part 1048 contain provisions that affect both engine manufacturers and others. However, the requirements of this part are generally addressed to the engine manufacturer. The term “you” generally means the engine manufacturer, as defined in §1048.801. This part 1048 is divided into the following subparts:

(a) Subpart A of this part defines the applicability of part 1048 and gives an overview of regulatory requirements.

(b) Subpart B of this part describes the emission standards and other requirements that must be met to certify engines under this part. Note that §1048.145 discusses certain interim requirements and compliance provisions that apply only for a limited time.

(c) Subpart C of this part describes how to apply for a certificate of conformity.